

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For: Choctaw BOE

Prepared By: Bubba Pope MS Forestry Commission

Time Period Covered by This Plan: 2012 - 2021

Date Plan Prepared: 2012-02-16

Plan Type: Stewardship / Stewardship

This plan was developed in accordance with the rules of the Stewardship program.

Property Name: Mathiston S16-19N11E

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LANDOWNER INFORMATION

Name: Choctaw BOE Mailing Address: PO Box 398

City, State, Zip: Ackerman, MS 39735 Country: United States of America

Contact Numbers: Home Number:

Office Number: 662-285-6239

Fax Number:

E-mail Address:

Social Security Number (optional):

FORESTER INFORMATION

Name: Bubba Pope, Service Forester

Forester Number: 01004

Organization: MS Forestry Commission

Street Address: PO Box 295

City, State, Zip: Ackerman, MS 39735

Contact Numbers: Office Number: 662-285-6728

Fax Number:

E-mail Address: spope@mfc.state.ms.us

PROPERTY LOCATION

County: Choctaw Total Acres: 652 Latitude: -89.15 Longitude: 33.51

Section: 16 Township: 19N Range: 11E

DISCLAIMER

Some forest practices may cause temporary adverse environmental or aesthetic impacts. These practices will only cause short-term adverse impacts where they are installed. Special efforts will be made to minimize adverse effects when carrying out any of the practices. Examples include: site preparation, planting, prescribed fires, firebreak installation and maintenance, road installation and maintenance, pesticide applications and timber harvesting.

This information was derived from a small sampling of the forest resources. It reflects a statistical estimation that is only intended to be accurate enough for the purposes of making decisions for the short-term management of these resources. These estimations are temporally static. Events and circumstances may occur within the survey area that will physically alter the forest resources and therefore will not be reflected in the plan.

INTRODUCTION

This Forest Stewardship Management Plan will serve as a guide for accomplishing the goals and objectives for your property. In addition to addressing your specific goals and objectives, this plan includes recommendations for maintaining soil and water quality and

protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

OBJECTIVES

Fire Protection

The goal is to protect the resource from wildfires, by establishing and maintaining firebreaks around the property; annually inspect possible signs of insect infestations and disease; and prohibit grazing until terminal bud is beyond reach of livestock.

Timber Production

The goal is to produce high quality sawtimber. This will be accomplished through reforestation and timber stand improvement practices such as herbicide applications, prescribed burning, thinning at specified intervals, and other silvicultural practices. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

PROPERTY DESCRIPTION

General Property Information

This section is known as the "Mathiston" section and is located on Lagrange Rd. The majority of the section is loblolly pine. Mathiston has approximately 612 forested acres of various sized timber. This section has 40 non-forested acres. There are no management activities being recommended during this plan for the non-forested acres.

Water Resources

No perennial water resources were identified during a reconnaissance of the property. However, intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

Threatened and Endangered Species

No threatened and endangered species were identified during the reconnaissance and evaluation of your property.

Interaction with Surrounding Property

Prescribed practices should be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration should be given to potential air, water, visual, and other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

Archeological or Cultural Resources

Archeological or Cultural Resources

These areas can range from churches, old cemeteries or Indian mounds to old home sites or other areas of historical significance.

No Archeological or Cultural resources were identified during a reconnaissance of the property. However, if Archeological or Cultural resources are discovered anytime on the property special managements measures will be applied immediately in order preserve these sensitive areas.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A health vigorously growing stand is the best defense to an attack form a variety of forest insects, plants and pathogens.

Insects and Diseases

Trees are subject to attack from insects and diseases. Different insects and diseases affect trees according to the age, species, and condition of the trees. Planted stands of pines and pure stands of hardwoods are particularly susceptible to attack. Since there are many different insects and diseases, no attempt will be made here to explain all of them. The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

- · Unseasonable leaf fall
- Discoloration of leaves or needles
- Pitch pockets on pine trees
- · Heavy defoliation of hardwood leaves
- Groups of three or more dying trees within a stand

This list does not cover all instances of insect or disease attacks. If anything unusual is noticed, report it to a forester. In most cases, insect and disease problems can be controlled if discovered early.

Fire Protection

Your forest should be protected from wildfire at all times. The best way to protect your investment is by establishing and maintaining firebreaks around the property. Guidelines for establishment and maintenance of firebreaks may be found in Mississippi Forestry Commission publication #107, *Mississippi's Best Management Practices*

Grazing

Tree seedlings should be protected from grazing until such time as the terminal bud of the sapling is beyond reach of livestock. Domestic livestock should be denied access to the tree planting area.

Boundary Lines

Boundary lines will be maintained by the Mississippi Forestry Commission on a 3-4 year rotation. All lines will be marked in orange or red paint.

SOIL TYPES

OrD2

The Ora component makes up 90 percent of the map unit. Slopes are 8 to 12 percent. This component is on uplands. The parent material consists of loamy fluviomarine deposits. Depth to a root restrictive layer, fragipan, is 18 to 42 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

OrC2

The Ora component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of loamy fluviomarine deposits. Depth to a root restrictive layer, fragipan, is 18 to 42 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

SaC2

The Savannah component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on coastal plains. The parent material consists of loamy alluvium deposits. Depth to a root restrictive layer, fragipan, is 16 to 38 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 81.

SaB2

The Savannah component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on coastal plains. The parent material consists of loamy alluvium deposits. Depth to a root restrictive layer, fragipan, is 16 to 38 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 81.

MaC

The Maben component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of stratified sandy to clayey marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

MaE

The Maben component makes up 90 percent of the map unit. Slopes are 8 to 15 percent. This component is on uplands. The parent material consists of stratified sandy to clayey marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

МаВ

The Maben component makes up 90 percent of the map unit. Slopes are 2 to 5 percent. This component is on uplands. The parent material consists of stratified sandy to clayey marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

Oa

The Oaklimeter component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is

moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 90.

MP

The Maben component makes up 71 percent of the map unit. Slopes are 12 to 35 percent. This component is on uplands. The parent material consists of stratified sandy to clayey marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Providence component makes up 24 percent of the map unit. Slopes are 12 to 15 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 to 38 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. This soil does not meet hydric criteria.

STRATA

Strata 1
Strata Description
Strata 1 - 121 Acres

Contains stands 1,2,3,4, and 5

This stand is 121 acres and was clear cut in 2007. Previously this was a old growth stand of loblolly pines mixed with some shortleaf pines. After the area was harvested, it was site prepped, and re-planted with genetically improved loblolly pine trees. The pine trees on the area is now 4 years old.

Strata Recommendations
No activities for this strata at this time.

Strata 5

Strata Description
Strata 5 - 76 Acres

Contains stands 9 and 15

This stand is 76 acres of sub merchantable loblolly pines. The area was harvested, site prepped, and re-planted with genetically improved loblolly pines in 1992.

Activity Recommendations

Recommended that this area be first thinned in the year 2017. The area should be thinned to 80 square feet basal area.

Harvest

Recommended that this area be first thinned in the year 2017. The area should be thinned to 80 square feet basal area. This will be achieved by thinning the weaker and diseased trees first to achieve the 80 square feet basal area.

Strata 8
Strata Description
Strata 8 - 104 Acres

Contains stand 19.

This is a 104 acres that was harvested in 2010. the area was site prepped in the summer of 2011 and will be re-planted in the winter of 2011-2012 genentically improved loblolly pine trees.

Strata Recommendations

It is recommended this area be site prepped sprayed and re-planted with North Mississippi pine seedlings.

Activity Recommendations

It is recommended this area be site prepped sprayed and re-planted with North Mississippi pine seedlings.

Regeneration

This stand should be hand planted in genectially improved loblolly pine trees at the rate of 691 TPA. Survivial should be greater or equal to 400 TPA after the first summer.

Site Preparation

This strata should be site prepped by aerial spray in the summer of 2011.

Strata 9

Strata Description Strata 9 - 11 Acres

Contains stand 17.

This strata is 11 acres of hardwoods. No activites are planned for the next 10 years on this strata.

Strata Recommendations

No activities for this strata at this time.

Strata 10
Strata Description
Strata 10 - 2 Acres

Contains stand 12.

This strata is 2 acres of pine sawtimber.

Strata Recommendations

No activities for this strata at this time.

Strata 12
Strata Description
Strata 12 - 6 acres

Contains stand 8.

This strata is 6 acres of hardwood sawtimber. It is an old growth natural hardwood stand.

Strata Recommendations

No activities for this strata at this time.

Strata 13
Strata Description
Strata 13 - 120 acres

Contains stands 6 and 7.

This strata is a 120 acreas of chip-n-saw that has been previously thinned 2 times.

Strata Recommendations

This area should have a regeneration harvest preformed in the year 2019, assuming prices are meet the minimum requirements.

Activity Recommendations

Harvest

This area should have a regeneration harvest preformed in the year 2019, assuming prices are meet the minimum requirements.

Regeneration

This stand should be hand planted in genectially improved loblolly pine trees at the rate of 691 TPA. Survivial should be greater or equal to 400 TPA after the first summer.

Site Preparation

This strata should be site prepped by aerial spray in the summer of 2020.

Strata 20 Strata Description Strata 20 - 136 acres

Contains stands 10, 11, and 16.

This strata is 136 acres of pine chip-n-saw that was planted 1989. The area has already had a 1st thinning.

Strata Recommendations

Activity Recommendations

Harvest

The area should be looked at for 2nd thinning around the year 2013. The 2nd thinning should produce an uniform stand of 80 basal area.

Strata 40
Strata Description
Strata 40 - 37 Acres

Contains stands 13 and 14.

This strata contains 37 acres of hardwood pulpwood that was left as SMZ's along drainage ditches.

Strata Recommendations

No activities for this strata at this time.

OTHER PLAN ACTIVITIES

Property Roads/Trails

Property roads and trails will be maintained for management and harvesting. Line Description

Property roads and trails will be maintained for management and harvesting.

Line Recommendations

These areas should be looked at least every two years to be maintained.

Activity Recommendations

Roads

These areas should be looked at least every two years to be maintained.

Boundary Lines

Line Description

The boundary lines are painted every 4 years in either red or orange boundary paint to make sure the property lines are clearly visible.

Line Recommendations

The boundary lines are painted every 4 years in either red or orange boundary paint to make sure the property lines are clearly visible.

Activity Recommendations

Property Activities

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

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Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

Fire Control

Line Description

These lines are used for easy access and maintained for easy fire control.

Line Recommendations

Lines should be pushed and maintained every 4 years.

Activity Recommendations

Fire Protection

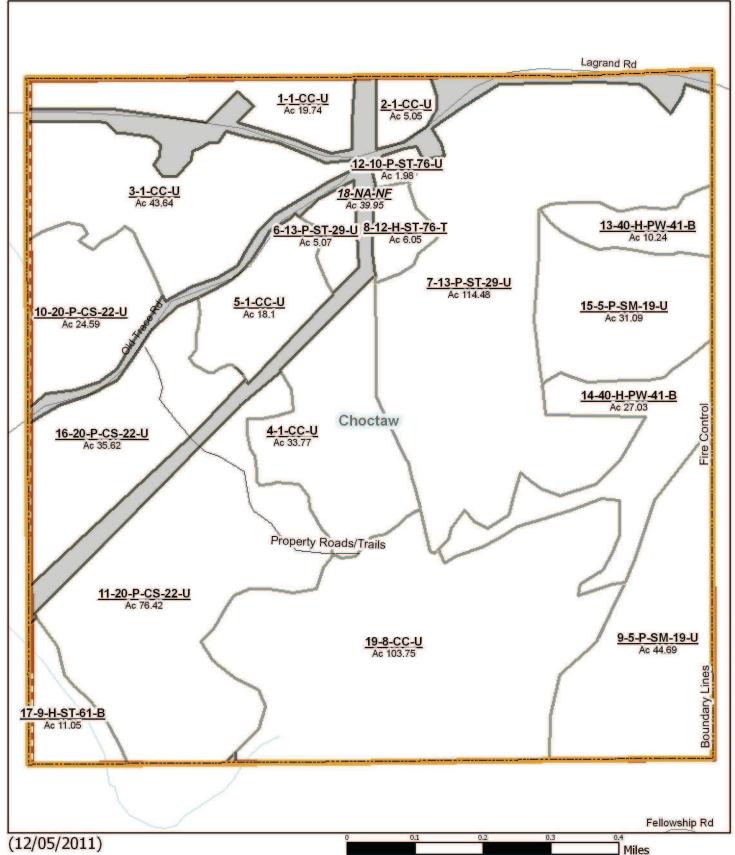
Due to well kept fire lanes, accessible roads, and good communication with the community makes for easier fire protection.



Mathitson

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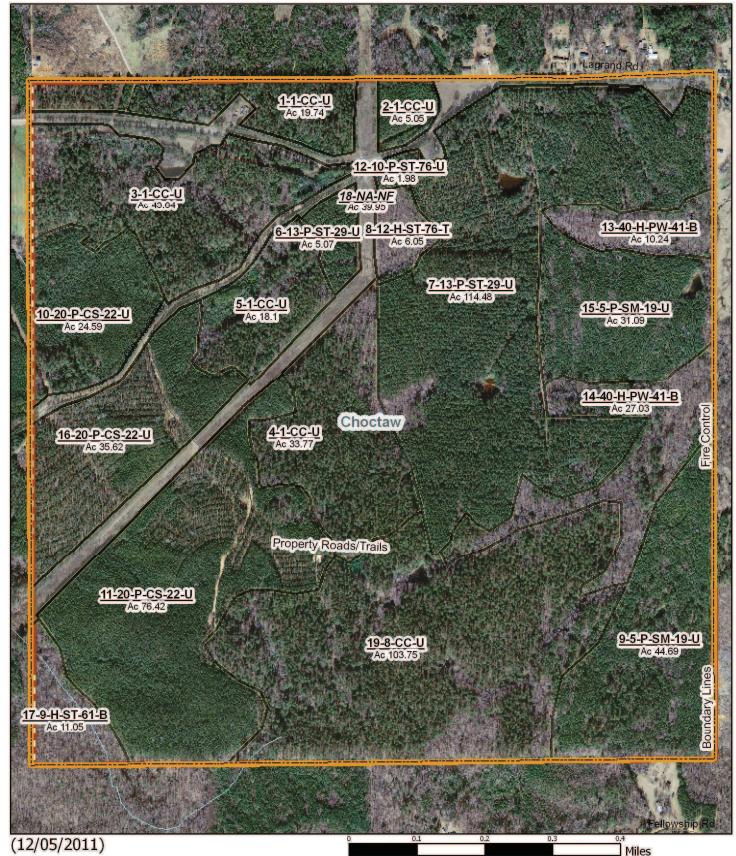




Mathitson

S16-19N-11E 2012 to 2021 652





Mathitson

Water Hole

Feeder

Drilling Sites

Education



Boundary Corners School Land Classification Property Boundary Lines (cont) Property X Property **Forest Health** Forest Land Farm/Residential Land Section **Invasive Species** Category 1: Stands **Ouarter Section** Management Compartment Residential Land Clear Cut Military Area Agricultural Land Areas Non-Stocked Natural Area **Industrial Land** Reproduction Structures Recreational Land Property Catfish Farming Land Sub-Merchantable Barn Recreation Pulpwood Tractor Shed Rights of Way Other Land Chip-n-Saw Out Building Commercial Land SMZ Sawtimber Single-Family Special Use Management Compartment Poles Multi-Family Stand Camp House Surface Mining Management Category 2: Stands Threatened/Endangered Species Club House Regeneration Clear Cut Visual Buffer Office Building Site Preparation Non-Stocked Manufacturing Post Plant Fire Control Reproduction Warehouse Site Improvement Temporary Line Sub-Merchantable I Chicken House Vegetation Control Pulpwood Horse Stall Permanent Fire Break Stand Improvement Chip-n-Saw -Milking Parlor **Invasive Species Control** I Wildlife (Lines) Sawtimber Hog Pen Harvest Blind Poles Green Strip Fire Protection Stand Technical Category 3: Non-Forest Stands Hospital Fire H Wildlife Management Non-Forest Nursing Home Mitigation Burn **Property Activities** Dr. Clinic Silviculture Burn Roads Category 4: Not in Plan Stands State Facility Site-Prep Burn SMZ Office Not in Plan Wildfire Forest Health Work Center Recreation Category 5: Features Only Plan Stand School Land Lease Materials Depot Site Restoration Features Only Plan Hunting -Prison **Minerals** Transportation (Lines) School Restricted Sites Church Recreation City Streets X Archeology County Roads Mosque + Cemetery Restricted Area 3 Digit Highway Synagogue Red-Cockaded Woodpecker Interstate Highway Other SMZ ▲ Gopher Tortoise Archeology, **US Highway** Cruise Plots Picture Bogg Plant Cemetery State Highway Pre-Cruise Visual Buffer Natchez Trace Parkway Forest Health (Points) Post-Cruise Special Use Runways/Airports Cogan Grass Natural Area Active RR Other Abandoned RR Kudzu Education Japanese Climbing Fern Towers Recreation Hydrology (Lines) Chinese Tallow Logging Deck Military Area Mississippi River Privet Locked Large Utility Southern Pine Beetle UnLocked Red-Cockaded Woodpecker Major River Water Gopher Tortoise **Primary Stream** Sirex Wasp Picture Bogg Plant Intermittent Stream **IPPS** Oil Natural Gas Coal Canal Hydrology (Points) Gravel Ditch Property Roads/Trails Concrete Dam Dirt Earthen Dam Concrete Dam Beaver Dam Drive Ways Water Access Road Earthen Dam Oil Utilities (Lines) Natural Gas Permanent Logging Road Large Electrical Temporary Skid Trail Forest Health (Polygons) Wooden Farm Road Local Utility Other Hiking Trail Cogan Grass Large Pipeline Culvert Horseback Riding Trail Kudzu Small Pipeline Japanese Climbing Fern Pond Gas Line **Boundary Lines** Utility Line Chinese Tallow Wildlife (Points) Archeology Privet Water Line Food Plot Cemetery Southern Pine Beetle

Sirex Wasp

IPPS

Activities by Client and FY Report

Filters Applied: County: Choctaw Client Class:

District:

Client: Choctaw BOE STR: 16 19N 11E

Year: 2012 Through 2021

Client Name	Year	Activity Name	Practice	STR	Est. Acres	Est. Cost	Est. Revenue
Choctaw BOE							
	2013						
		Harvest					
			Thin				
				16 19N 11E	36	\$1,260.00	\$6,480.00
					76	\$2,660.00	\$13,680.00
					25	\$875.00	\$4,500.00
				Totals	137	\$4,795.00	\$24,660.00
					Summary for 'Act_Name' = Harvest		
				Totals	137	\$4,795.00	\$24,660.00
					Summary for 'PlanYear' = 2013	0.4.507.00	ФОД ССО ОО
				Totals	137	\$4,795.00	\$24,660.00
	2017						
		Harvest					
			Thin				
				16 19N 11E	31	\$1,085.00	\$4,650.00
					45	\$1,575.00	\$16,200.00
				Totals	76	\$2,660.00	\$20,850.00
				5	Summary for 'Act_Name' = Harvest		
				Totals	76	\$2,660.00	\$20,850.00
					Summary for 'PlanYear' = 2017		
				Totals	76	\$2,660.00	\$20,850.00
	2019						

Thursday, February 16, 2012

Client Name	Year	Activity Name	Practice	STR	Est. Acres	Est. Cost	Est. Revenue
		Harvest					
			Final				
				16 19N 11E	114	\$3,990.00	\$131,419.20
					5	\$175.00	\$5,764.00
				Totals	119	\$4,165.00	\$137,183.20
				Totals	Summary for 'Act_Name' = Harvest 119	\$4,165.00	\$137,183.20
				Totals	Summary for 'PlanYear' = 2019 119	\$4,165.00	\$137,183.20
	2020						
		Regeneration					
			Plant				
				16 19N 11E	114	\$10,830.00	\$0.00
					5.07	\$481.65	\$0.00
				Totals	119.07	\$11,311.65	\$0.00
				m	Summary for 'Act_Name' = Regenera		
				Totals	119.07	\$11,311.65	\$0.00
		Site Preparation					
			Broadcast				
				16 19N 11E	114	\$11,400.00	\$0.00
					5.07	\$507.00	\$0.00
				Totals	119.07	\$11,907.00	\$0.00
				Totals	Summary for 'Act_Name' = Site Prep 119.07	earation \$11,907.00	\$0.00
				101215	Summary for 'PlanYear' = 2020	φ11,307.00	φυ.υυ
				Totals	238.14	\$23,218.65	\$0.00
				m + 1	Summary for 'ClientName' = Choctar		#100.000.00
Constant				Totals	570.14	\$34,838.65	\$182,693.20
Grand Totals					570.14	\$34,838.65	\$182,693.20

Thursday, February 16, 2012